WHAT IS CLAIMED IS:

1. A molding manufacturing method, comprising:

preparing a long molding body including a molding main bodymade of thermoplastic material and a decorative layer higher than the molding main body in hardness and melt temperature, the molding main body and the decorative layer formed integrally so that the decorative layer is provided along a longitudinal direction of the molding main body on a surface thereof;

setting the molding body in a fixed die;

heating and softening an end portion of the molding body while maintaining a condition in which the decorative layer is harder than the molding main body, by irradiating an infrared ray onto a back surface of the molding main body corresponding to the end portion of the molding body; and

press forming the end portion of the molding body by pressing a movable punch onto the fixed die while the end portion of the molding body is in a heated and softened state to bend the end portion of the molding body to obtain an end cover portion having a predetermined shape.

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2. The molding manufacturing method according to claim 1, wherein, in the heating and softening step, an irradiation amount of the infrared ray onto the back surface of the molding main body is made alternately increase and decrease with a lapse of time.

3. The molding manufacturing method according to claim 1, wherein in the heating and softening step, a near infrared ray is irradiated by the use of a near infrared heating device.

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- 4. The molding manufacturing method according to claim 3, wherein the near infrared heating device includes a near infrared lamp and a reflecting mirror for reflecting a light emitted from the near infrared lamp to form a focal point; and
- the near infrared ray is irradiated substantially uniformly onto the back surface of the molding main body from a position separated farther than a focal length of the reflecting mirror.
- 15 5. A molding manufacturing method, comprising:

preparing a long molding body including a molding main bodymade of thermoplastic material and a decorative layer higher than the molding main body in hardness and melt temperature, the molding main body and the decorative layer formed integrally so that the decorative layer is provided along a longitudinal direction of the molding main body on a surface thereof;

setting the molding body in a fixed die;

heating and softening an end portion of the molding body while maintaining a condition in which the decorative layer is harder than the molding main body; and

press forming the end portion of the molding body by moving the movable punch obliquely toward the fixed die along a predetermined excursion such that the movable punch fits with the fixed die at an end of the excursion, to bend the end portion of the molding body.

- 6. The molding manufacturing method according to claim 5, wherein the press forming step includes fixing the molding body in a longitudinal direction thereof in the fixed die.
- 7. The molding manufacturing method according to claim 5, wherein in the press forming step, the predetermined excursion is set as a line which divides a bending angle of the fixed die into halves.
 - 8. The molding manufacturing method according to claim 5, wherein in the press forming step, the predetermined excursion is set as a nonlinear excursion.
- 20 9. The molding manufacturing method according to claim 8, wherein the nonlinear excursion is separate from a line dividing a bending angle of the fixed die into halves, except in the vicinity of a position where the movable punch fits with the fixed die.

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10. The molding manufacturing method according to claim 5, wherein in the press forming step, the fixed die and the movable punch is kept at a constant temperature cooler than the temperature of the end portion.

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- 11. The molding manufacturing method according to claim 5, further comprising: trimming an end of the bent end portion.
- 12. The molding manufacturing method according to claim 5,

 10 wherein in the press forming step, the end portion is bent while slightly compressed between a forming surface of the fixed die and a forming surface of the movable punch.
 - 13. A molding manufacturing method, comprising:
- body, a legportion and a pair of protruding portions, the molding main portion integrally laminated with a decorative layer harder than the molding main body, the leg portion protruding from a back surface of the molding main body, the pair of protruding portions each protruding from one of both sides of the legportion in a width direction of the molding main body;

cutting the molding body into a cut piece having a predetermined length;

removing the protruding portions from a back side of an end portion of the cut piece to form a first region thereon;

removing the protruding portions and the leg portion from a second region consecutive with a distal side of the first region to form a step between the first region and the second region on the back side;

positioning the cut piece in a longitudinal direction thereof by bringing the step into contact with the fixed die;

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heating and softening an end portion of the cut piece while maintaining a condition in which the decorative layer is harder than the molding main body, by irradiating an infrared ray onto a back surface of the molding main body corresponding to the end portion of the molding body; and

press forming the end portion of the cut piece by pressing a movable punch onto the fixed die while the end portion of the cut piece is in a heated and softened state to bend the end portion of the cut piece to obtain an end cover portion having a predetermined shape.

14. The molding manufacturing method according to claim 13, wherein the step of extrusion molding includes embedding a core material having a rigidity larger than that of the molding main body into the leg portion;

the step of removing the protruding portions includes removing the core material to obtain the main body portion without the core material in the second region; and

in the step of press forming the end portion of the cut

piece, the main body portion without the core material is bent.

- 15. A molding manufacturing apparatus, comprising:
 - a fixed die into which a molding body is to be set;
- a movable plate arranged movably in forward and backward directions substantially perpendicular to a reference line along a longitudinal direction of the molding body set in the fixed die;
- a movable punch attached on the movable plate and guided

 movably in forward and backward directions substantially

 perpendicular to a moving direction of the movable plate; and
 - a driving mechanism for driving the movable punch to move forward when the movable plate is moved forward;
- wherein the movable punch is moved in an oblique direction

 to close the fixed die therewith to press form an end portion

 of the molding body, the oblique direction being a synthesized

 direction of a forward moving direction of the movable plate

 and a forward moving direction of the movable punch.
- 16. The molding manufacturing apparatus according to claim 15, wherein the driving mechanism includes a driving source and a linking member which transmits a driving force of the driving source to the movable punch to shift the movable punch.
- 25 17. The molding manufacturing apparatus according to claim

16, wherein the driving source includes an electric motor rotatable in a normal direction and a reverse direction; and the linking member converts a rotational motion into a linear motion.

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18. The molding manufacturing apparatus according to claim 16, wherein the driving source includes a fluid cylinder for actuating the movable punch in the forward and backward directions.

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19. The molding manufacturing apparatus according to claim 15, further comprising a control unit that detects a travel distance of the movable plate and controls the driving mechanism according to the detected travel distance.

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- 20. The molding manufacturing apparatus according to claim 15, wherein the driving mechanism includes a cammechanism having a cam follower and a cam groove.
- 20 21. The molding manufacturing apparatus according to claim 15, wherein each of the fixed die and the movable punch has a forming surface for pressing the end portion of the molding body to bend at a substantially right angle.
- 25 22. The molding manufacturing apparatus according to claim

- 15, wherein each of the fixed die and the movable punch has a forming surface for pressing the end portion of the molding body to bend at an acute angle.
- 23. The molding manufacturing apparatus according to claim 15, wherein each of the fixed die and the movable punch has a forming surface for pressing the end portion of the molding body to bend at an obtuse angle.
- 24. A molding manufacturing method for manufacturing a

 10 molding having an end cover portion shaped in a predetermined shape out of a long molding body, comprising

preparing a molding apparatus including a fixed die, a first movable punch to be used to close the fixed die, and a second movable punch, the fixed die having a back forming surface for forming a back surface of the end cover portion, the first movable punch having a front forming surface for forming a front surface of the end cover portion, and the second movable punch capable of changing a volume of a cavity formed between the front forming surface and the back forming surface;

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setting the molding body in the fixed die in a state that an end portion of the molding body protrudes from an end of the fixed die; heating and softening the end portion; moving the first movable punch to close the fixed die therewith, while bringing the first movable punch into contact with the end portion to bend the end portion in a back surface side thereof,

to form an end bending portion in the cavity; and

moving the second movable punch so as to reduce the volume of the cavity to apply a compressive force to the end bending portion to press a material forming the end bending portion closely onto the front and back surfaces, while keeping the vicinity of a bending center portion of the end bending portion in a fluid.

- 25. The molding manufacturing method according to claim 24,
 wherein the first movable punch has an internal angle portion formed continuously with the front forming surface and having a radius of curvature smaller than a radius of curvature of a surface of the end bending portion.
- 15 26. The molding manufacturing method according to claim 24, wherein the step of moving the second movable punch includes moving forward the second movable punch from a distal end of the end bending portion in a direction to shorten a length of the end bending portion.

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27. The molding manufacturing method according to claim 24, wherein, in the step of moving the first movable punch, the end portion is bent while a temperature of a distal end of the end bending portion is reduced than a temperature of a bending center of the end portion.

- 28. The molding manufacturing method according to claim 24, wherein, in the step of moving the first movable punch, the end portion is bent while a hardness of a distal end of the end bending portion is made higher than a hardness of a bending center of the end portion.
- 29. The molding manufacturing method according to claim 24, wherein, in the setting step, the protruding end portion of the molding body is set longer than a length of the end cover portion to be finally formed and shorter than a length of the front forming surface of the first movable punch;

in the step of moving the first movable punch, the first movable punch closes the fixed die so that an end of the end bending portion remains in the cavity; and,

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in the step of moving the second movable punch, the second movable punch is moved toward a part of the cavity opposing to the end of the end bending portion.

- 20 30. A molding manufacturing apparatus for manufacturing a molding having an end cover portion shaped in a predetermined shape out of a long molding body, comprising:
 - a fixed die having a back forming surface for forming a back surface of the end cover portion;
- a first movable punch to be used to close the fixed die,

the first movable punch having a front forming surface for forming a front surface of the end cover portion; and

a second movable punch capable of changing a volume of a cavity formed between the front forming surface and the second forming surface.

31. The molding manufacturing apparatus according to claim 30,

wherein the first movable punch has an internal angle
portion being formed continuously with the front forming surface
and having a radius of curvature smaller than a radius of
curvature of a surface of an end bending portion of the molding
body, the end bending portion to be formed into the end cover
portion.

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32. The molding manufacturing apparatus according to claim 30,

wherein the second movable punch is guided by the back forming surface of the fixed die to move forward and backward while being in contact therewith; and

the volume of the cavity is reduced by a forward moving motion of the second movable punch.

33. The molding manufacturing apparatus according to claim25 30, further comprising:

a heating unit which is provided to the fixed die and heats the back surface of the end portion.